

Unit 2, Lesson 5B

Objective: Solve one step equations
using multiplication and division

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Objective: Simplify one step equations using multiplication and division.

Homework: Page 96 # 1, 3, 5, 10, 12, 13

Do Now

Skills Quiz

Review Homework

$$12. d - 4 = -7$$

$$\begin{array}{r} +4 \quad +4 \\ \hline d \quad = -3 \end{array}$$

$$14. a - 4 = -18$$

$$\begin{array}{r} +4 \quad +4 \\ \hline a \quad = -14 \end{array}$$

$$16. z - 100 = 100$$

$$\begin{array}{r} +100 \quad +100 \\ \hline z \quad = 200 \end{array}$$

$$20. -54 = q - 9$$

$$\begin{array}{r} +9 \quad +9 \\ \hline -45 = q \end{array}$$

$$22. \quad 35 + b = -90$$

$$35 - 35 + b = -90 - 35$$

$$b = -125$$

$$24. 54 + x = 98$$

$$\begin{array}{r} -54 \quad -54 \\ \hline x = 44 \end{array}$$

$$27. 450 = a - 325$$

$$\begin{array}{r} +325 \quad +325 \\ \hline 775 = a \end{array}$$

$$28. h + 35 = 15$$

$$\begin{array}{r} -35 \quad -35 \\ \hline h = -20 \end{array}$$

Remember to place a check or an x next to your answers as you check them.
AND remember to star your favorite mistakes so we can discuss them.



Notes

Unit 2, Lesson 5B: Solving one step equations using multiplication and division

Goal: Isolate x (get it alone on one side)

Steps:

1. Use inverse operations
Inverse of addition: subtraction
Inverse of multiplication: division
2. Keep it balanced
3. Check!



Notes

Unit 2, Lesson 5B: Solving one step equations using multiplication and division

$$\begin{array}{rcl} \text{Ex 1:} & 45 & = 9a \\ & \div 9 & \div 9 \\ \hline & 5 & = a \end{array}$$

$$\begin{array}{rcl} \text{Ex 2:} & 12w & = -108 \\ & \div 12 & \div 12 \\ \hline & w & = -9 \end{array}$$

$$\begin{array}{rcl} \text{Ex 3:} & x \div -9 & = -3 \\ & \bullet -9 & \bullet -9 \\ \hline & x & = 27 \end{array}$$

Trashball Rules

1. Everyone solves every problem on their whiteboard
2. Silence while working on problems
3. Turn board upside down when you have your answer
4. Team that isn't shooting can earn 1 bonus point for majority of team members solving the problem correctly

The Last Seven Minutes...

1. Silently staple the Lesson 3 Practice Sheet (tonight's homework) in your notebook on page 72.
2. Silently pack up everything except a pencil.
3. Carefully (and silently) pass the exit slips from window to wall.
4. Silently fill out your exit slip. Everyone deserves five minutes of **strong silence** to recall and apply all that we learned today.